PATENT COOPERATION TREATY

PCT

REC'D 12 APR 2005

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILIT

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

	1			
Applicant's or agent's file reference	FOR FURTHER ACTION	See Form PCT/IPEA/416		
International application No.	International filing date (day/month/ye			
PCT/GB2004/000465	06.02.2004	22.03.2003		
International Patent Classification (IPC) or r	ational classification and IPC			
F02M57/00				
Applicant				
SCION SPRAYS LIMITED et al.				
	Uning a supplied report setable	ished by this International Preliminary Examining		
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 				
2. This REPORT consists of a total of 4 sheets, including this cover sheet.				
3. This report is also accompanied by ANNEXES, comprising:				
a. Sent to the applicant and to the International Bureau) a total of 1 sheets, as follows:				
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
	ada aarliar abaata but which this Au	uthority considers contain an amendment that goes		
beyond the disclosure in the international application as filed, as indicated in item 4 or box No. 1 and the				
linking and for to	whos raisted therein in committee re	e and number of electronic carrier(s)) , containing a adable form only, as indicated in the Supplemental		
Box Relating to Sequence	e Listing (see Section 802 of the Ad	ministrative Instructions).		
	Lating to the following items:			
4. This report contains indications	relating to the lollowing items.			
Box No. I Basis of the o	pinion			
☐ Box No. II Priority	to forest an with remard to povol	the inventive step and industrial applicability		
1		ity, inventive step and industrial applicability		
☐ Box No. IV Lack of unity	of Invention	ard to novelty, inventive step or industrial		
Box No. V Reasoned state applicability; of	itations and explanations supporting	g such statement		
☐ Box No. VI Certain docur				
	ts in the international application			
☐ Box No. VIII Certain obser	vations on the international applicat	ion		
	Data of a	ompletion of this report		
Date of submission of the demand	Date of Co	ompleasit of the report		
12.10.2004		2005		
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Name and mailing address of the internal preliminary examining authority:	lonal Authorize	ed Officer		
European Patent Office				
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 52	Torle, E			
Fax: +49 89 2399 - 4465	Telephor	ne No. +49 89 2399-6943		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/000465

	Box	No.1	Basis of the report
1.	. With regard to the language, this report is based on the international application in the language in which filed, unless otherwise indicated under this item.		
		This re which i	port is based on translations from the original language into the following language , is the language of a translation furnished for the purposes of:
		□ pub	ernational search (under Rules 12.3 and 23.1(b)) Dication of the international application (under Rule 12.4) Ernational preliminary examination (under Rules 55.2 and/or 55.3)
2.	have	e been	d to the elements* of the international application, this report is based on <i>(replacement sheets whic</i> furnished to the receiving Office in response to an invitation under Article 14 are referred to in this originally filed" and are not annexed to this report):
	Des	cription	, Pages
	1-10	•	as originally filed
	Clai	ms, Nur	mbers
	1-8		filed with telefax on 23.03.2005
	Drav	wings, S	Sheets
	1/6-6	6/6	as originally filed
	□.	a sequ	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
з. 🗆		The ar	mendments have resulted in the cancellation of:
			description, pages claims, Nos.
		☐ the	drawings, sheets/figs sequence listing <i>(specify)</i> :
			y table(s) related to sequence listing (specify):
4.		not be	eport has been established as if (some of) the amendments annexed to this report and listed below en made, since they have been considered to go beyond the disclosure as filed, as indicated in the ntal Box (Rule 70.2(c)).
			description, pages claims, Nos.
		☐ the	drawings, sheets/figs
			e sequence listing <i>(specify)</i> : y table(s) related to sequence listing <i>(specify)</i> :
	*	If it	em 4 applies, some or all of these sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

3,5,7,8

No: Claims

1,2,4,6

Inventive step (IS)

Yes: Claims

No: Claims

3,5,7,8

Industrial applicability (IA)

Yes: Claims

1-8

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

PCT/GB2004/000465

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: US20020087256 A1 D2: DE 34 43 022 A1 D3: JP59221433 A D4: WO9835210 A1

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

The document D1 discloses (cf. page 1, paragraph 13 - page 2, paragraph 15; figures 1 and 2):

An engine management system operating in conjunction with a sensor (12) and processing means for controlling the spark and injection process (18); whereby said engine management system is operatively connected to a single sensor (12) so that the engine management system uses only the input from one sensor; and in that said single sensor (12) is located in contact with the medium of a combustion chamber of an internal combustion engine.

The subject-matter of claim 1 is therefore not new.

Dependent claims 2-8 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step since the features of claims 2, 4, 6 are already disclosed in document D1, the features of claim 3 are disclosed in document D2, the features of claim 5 are known from document D3, the features of claim 7 are known from document D4, and the features of claim 8 is a matter of normal design choise.

CLAIMS

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- An engine management system operating in conjunction with a sensor 1. and processing means for controlling the spark and injection process; characterised in that said engine management system is operatively connected to a single sensor so that the engine management system uses only the input from one sensor; and in that said single sensor is located in contact with the medium of a combustion chamber of an internal combustion engine.
- An engine management system according to Claim 1, wherein the 2. sensor is located in contact with the medium of a single combustion chamber engine.
- An engine management system according to either of the preceding 3. Claims, wherein said single sensor is part of a combined spark and injector plug.
- An engine management system according to any of the preceding 4. Claims, wherein the sensor delivers data to the processing means to determine at least the crankshaft position of said engine.
- An engine management system according to Claim 1, wherein the 5. processing means analyses the data delivered to establish the rate of pressure rise to determine trapped air volume in cylinder.
- An engine management system according to either of the preceding Claims, wherein the processing means analyses the data delivered to establish the operation history of the engine.
- A system according to any of the preceding Claims, wherein the sensor 7. incorporates a deformable member in close proximity to the medium.
- A system according to any of Claims 3 to 7, wherein the sensor is 8. located radially outwards from the plug's central axis.